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Spring 2006

## CS 340: Programming Language Workshop in Java

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# CS 340 Programming Language Workshop in Java (1 Credit)

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- **Instructor** : T. K. Prasad
  - **Phone No.** : (937)-775-5109
  - **Email** : [t.k.prasad@wright.edu](mailto:t.k.prasad@wright.edu)
  - **Home Page**: <http://www.cs.wright.edu/~tkprasad>
  - **Quarter** : Spring 2006
  
  - **Office Hrs** : TTh, 3-4pm (or by appointment), 337 RC
  - **One and Only Class** : **April 4, Tue, 3:30-4pm, 337 RC**
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## Course Description

This course is designed as a self-study in Java. You are expected to learn the Java language and solve a set of programming problems assigned to you using it. (You may develop your code using any IDE you like, but you must ensure that it eventually runs using JDK 5). There are no exams. We officially meet only once in a quarter. However, I will be available in the posted office hours for clarifications and discussions about the programming problems.

## Prerequisite

- Experience with programming in C/C++ or Pascal/Ada.
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## Course Text

- Dietel and Dietel: Java : How to Program, 6th Edition. Prentice Hall, 2005, ISBN 0-13-148398-6.
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## Relevant Websites

- Java Core APIs
  - The Java Tutorial
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## Download Sites

1. JDK 1.5 (<http://java.sun.com/j2se/1.5.0/download.jsp>)
2. JBuilder 2005 Enterprise 30-Trial and Foundation is the same download ([http://www.borland.com/products/downloads/download\\_jbuilder.html](http://www.borland.com/products/downloads/download_jbuilder.html))
3. NetBeans 4.0 (<http://www.netbeans.org/community/releases/40/index.html>)
4. Eclipse 3.0 (<http://www.eclipse.org/downloads/index.php>)
5. TextPad Editor ([www.textpad.com](http://www.textpad.com))
6. WinZip ([www.winzip.com](http://www.winzip.com))
7. Apache Tomcat ([www.apache.org](http://www.apache.org))

### Java IDE Tutorials by Y. Daniel Liang

1. [Compiling and Running Java from the Command Window](#)
  2. [Compiling and Running Java from TexPad](#)
  3. [JBuilder Tutorial](#)
  4. [NetBeans Tutorial](#)
  5. [Eclipse Tutorial](#)
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## Grading

Each programming assignment will be graded as *Pass/Unsatisfactory*, and the letter grade 'P' or 'U' will be assigned at the end of the course.

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## Course Policies

1. All work must be turned-in by **May 30, 2005**.
  2. Do not expect an incomplete for any reason. Each assignment will also have a separate deadline.
  3. You must pass all the projects to pass the course.
  4. Each program should be well-documented and adequately tested.
  5. You must turnin the source code, a README.txt with a brief description of the design and use of the code, and where applicable, a sample output, as a single zip-archive for each assignment. To turnin the  $i^{\text{th}}$  assignment (where  $i = 1, 2, 3, 4$ ), create the archive `asgi.zip`, and execute the following shell command on paladin:  
`csh% /common/public/tkprasad/cs340/turnin-pai asgi.zip`
  6. You may also be required to demonstrate your code on `paladin.wright.edu` or on your laptop in my office hours after the due date.
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## Assignments

	Topic	Problems, Page No.	Due Date
<b>I</b>	Basics	Guessing Game: Ex. 6.33, pp. 283	April 11
<b>II</b>	Arrays	Eight Queen's Problem: Ex. 7.24, pp. 347	April 25
<b>III</b>	Graphics	Screen Saver: Ex. 12.18, pp. 634	May 11
<b>IV</b>	GUI	Shape Drawing Applet: Ex. 20.12, pp. 976	May 30

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*T. K. Prasad (03/10/2006 )*